SAFETY DATA SHEETS

This SDS packet was issued with item:

078952701

N/A

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 03.15.2000

Revision Date: 01.22.2025

Dexamethasone Injection

SECTION 1: Identification

Product identifier

Product name: Dexamethasone Injection

Product Code: 15761817, 78952701

Other means of identification: None

Additional information: None.

Recommended use of the chemical and restrictions on use

Recommended use: Treatment of primary bovine ketosis and as an anti-inflammatory agent in the bovine and equine.

Restrictions on use: Not determined or not applicable.

Manufacturer or supplier details

Supplier:

United States

Aspen Veterinary Resources Ltd
3155 W. Heartland Drive
Liberty, MO 64068
1-800-792-1238

Emergency telephone number:

United States

CHEMTREC
Within USA and Canada: 1-800-424-9300 (24 hours)
Outside USA and Canada: +1-703-527-3887 (24 hours)

SECTION 2: Hazard(s) identification

Classification in accordance with paragraph (d) (1)(i) of §1910.1200, GHS Revision 7 and certain provision of GHS Revision 8:

Reproductive toxicity, category 1B

Label elements

Pictogram(s):

Signal Word: Danger

Hazard statements:

H360 May damage fertility or the unborn child

Precautionary statements:

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P280 Wear protective gloves, protective clothing, eye protection and face protection
P308+P313 If exposed or concerned: Get medical advice and attention
P405 Store locked up
P501 Dispose of contents and container in accordance with local regulations.

Hazards not otherwise classified: None

Supplemental label elements: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS Number: 25322-68-3	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	50
CAS Number: 64-17-5	Ethanol	5
CAS Number: 100-51-6	Benzyl Alcohol	0.9
CAS Number: 50-02-2	Dexamethasone	0.9
CAS Number: 99-76-3	Methyl 4-hydroxybenzoate	0.18
CAS Number: 94-13-3	Propyl 4-hydroxybenzoate	0.02

Additional Information:
The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR§1910.1200).

SECTION 4: First-aid measures

Description of first-aid measures

General notes:
Show this Safety Data Sheet to the doctor in attendance.

After inhalation:
Not determined or not applicable.

After skin contact:
Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:
Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After ingestion:
If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most important symptoms/effects, acute and delayed

Acute symptoms and effects:
No significant acute effects/symptoms.

Delayed symptoms and effects:

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

Indication of immediate medical attention and special treatment needed, if necessary

Immediate medical attention:

Not determined or not applicable.

Special treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media:

Do not use water jet.

Specific hazards arising from the chemical:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special protective equipment and precautions for fire-fighters

Special protective equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
OSHA	Ethanol	64-17-5	8-Hour TWA-PEL: 1900 mg/m³ ([1000 ppm])
NIOSH	Ethanol	64-17-5	REL-TWA: 1900 mg/m³ (1000 ppm [up to 10 hr.])
	Ethanol	64-17-5	IDLH: 3300 ppm
ACGIH	Ethanol	64-17-5	15-Minute STEL: 1000 ppm
United States(California)	Ethanol	64-17-5	8-Hour TWA-PEL: 1900 mg/m³ ([1000 ppm])
WEEL	Benzyl Alcohol	100-51-6	8-Hour TWA: 44.2 mg/m³ (10 ppm)
	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	25322-68-3	8-Hour TWA: 10 mg/m³ (molecular weight >200 aerosol)

Biological Limit Values:

No biological exposure limits noted for the ingredient(s)

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Individual protection measures, such as personal protective equipment

Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General hygiene measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Color	Clear, colorless
Odor	Practically odorless
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	212° F (100° C)
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	Not determined or not available.
Evaporation rate	Negligible
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Solubility	Not less than 50%
Partition coefficient — n-octanol/water	Not determined or not available.
Vapor pressure	Not determined or not available.
Density	Not determined or not available.
Relative density	1.07
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

Other Information: No additional information.

SECTION 10: Stability and reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials. Protect from freezing.

Incompatible materials:
None known.

Hazardous decomposition products:
Carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11: Toxicological information

Acute toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Route	Result
Ethanol	oral	LD50 Rat: 10,470 mg/kg
	inhalation	LC50 Rat: 116.9 mg/L (4 hr [vapor])
	dermal	LD50 Rabbit: 17,100 mg/kg
Benzyl Alcohol	oral	LD50 Rat: 1610 mg/kg
	inhalation	LC50 Rat: >4.178 mg/L (4 hr [aerosol])
	dermal	LD50 Rabbit: >2000 mg/kg
Dexamethasone	oral	LD50 Rat: >3000 mg/kg
Methyl 4-hydroxybenzoate	oral	LD50 Rat: 2100 mg/kg
Propyl 4-hydroxybenzoate	oral	LD50 Rat: >5000 mg/kg
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	dermal	LD50 Rat: >2000 mg/kg
	oral	LD50 Rat: >2000 mg/kg

Skin corrosion/irritation
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Serious eye damage/irritation
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Result
Ethanol	Causes serious eye irritation.
Benzyl Alcohol	Causes serious eye irritation.

Respiratory or skin sensitization
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Carcinogenicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Reproductive toxicity

Assessment:
May damage fertility or the unborn child
Product data: No data available.
Substance data:

Name	Result
Dexamethasone	May damage fertility or the unborn child.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Result
Dexamethasone	May cause respiratory irritation.
Methyl 4-hydroxybenzoate	May cause respiratory irritation.
Propyl 4-hydroxybenzoate	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Result
Dexamethasone	May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Interactive effects:
No additional information.

Information on likely routes of exposure:
Inhalation; Ingestion; Skin contact; Eye contact

Symptoms related to the physical, chemical and toxicological characteristics:
Refer to Section 4 of this SDS.

Other information:
No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.

Substance data:

Name	Result
Benzyl Alcohol	Fish LC50 Pimephales promelas: 460 mg/L (96 hr [mortality])
	Aquatic Invertebrates EC50 Daphnia magna: 230 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: 770 mg/L (72 hr [growth rate])
Methyl 4-hydroxybenzoate	Fish LC50 Oryzias latipes: 59.5 mg/L (96 hr)
	Aquatic Plants EC50 Raphidocelis subcapitata: 91 mg/L (72 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: 11.2 mg/L (48 hr [mobility])
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	Fish LC50 Poecilia reticulata: > 100 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodesmus subspicatus: >100 mg/L (96 hr [growth rate, Read-across substance data])
Ethanol	Fish LC50 Pimephales promelas: 15,300 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >10,000 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Chlorella vulgaris: 275 mg/L (72 hr [growth rate])
	Bacteria LC50 Paramaecium caudatum: 5,800 mg/L (4 hr)
Propyl 4-hydroxybenzoate	Fish LC50 Danio rerio: 6.4 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 15.4 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: 16 mg/L (72 hr [growth rate])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Benzyl Alcohol	Fish NOEC Freshwater fish: 48.897 mg/L (30 d [mortality, QSAR substance data])
	Aquatic Invertebrates NOEC Daphnia magna: 51 mg/L (21 d [reproduction])
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	Fish NOEC Fish: 13,671.586 mg/L (28 d [mortality])
	Aquatic Invertebrates NOEC Daphnia magna: 17,475.27 mg/L (21 d [immobilisation, Read-across substance data])
Ethanol	Aquatic Invertebrates NOEC Daphnia Magna: 9.6 mg/L (10 d [reproduction])
	Fish NOEC Danio rerio: 250 mg/L (5 d)
Methyl 4-hydroxybenzoate	Aquatic Invertebrates NOEC Daphnia magna: 0.2 mg/L (21 d [reproduction])
Propyl 4-hydroxybenzoate	Aquatic Invertebrates EC50 Daphnia magna: 0.25 mg/L (21 d [growth, reproduction and immobilisation])

Persistence and Degradability

Product data: No data available.

Substance data:

Name	Result
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	The substance is readily biodegradable. 74.85% degradation in water, measured by O2 consumption, after 28 days.
Ethanol	The substance is readily biodegradable. 84% degradation in water, measured by O2 consumption, after 20 days.

Name	Result
Benzyl Alcohol	The substance is readily biodegradable. 92 - 96% degradation in water, measured by O2 consumption after 14 days.
Methyl 4-hydroxybenzoate	The substance is readily biodegradable. 89% degradation in water, measured by CO2 evolution, after 28 days.
Propyl 4-hydroxybenzoate	The substance is readily biodegradable. 91.5 % degradation in water, measured by O2 consumption, after 28 days.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Ethanol	The substance is not expected to bioaccumulate in organisms (estimated BCF: 3).
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	The substance is not expected to bioaccumulate (BCF: 3.162 L/kg, basis: whole body w.w., aquatic species at 25 °C and log Pow: 30 °C).
Benzyl Alcohol	The substance is not expected to bioaccumulate (log Pow= 1 at 20 °C and BCF= 1. 1.371 L/kg- QSAR data).
Methyl 4-hydroxybenzoate	The substance is not expected to bioaccumulate (BCF:6.4).
Propyl 4-hydroxybenzoate	The substance is not expected to bioaccumulate (log Pow: 2.94 at 37 °C).

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Ethanol	The substance is highly mobile; therefore, adsorption to soil is not expected (log Koc: 0.2).
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	The substance is mobile, therefore adsorption to soil is not expected (log Koc= 1.857 dimensionless at 25 °C).
Benzyl Alcohol	The substance is mobile, therefore, adsorption to soil is not expected (log Koc= 1.332 L/kg, QSAR substance data).
Methyl 4-hydroxybenzoate	The substance is moderately mobile, therefore, there is moderate potential for adsorption to soil and sediment (Koc: 280).
Propyl 4-hydroxybenzoate	The substance is moderately mobile, therefore, there is moderate potential for adsorption to soil and sediment (log Koc:2.457 at 25 °C, QSAR substance data).

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

Ethanol	The substance is not PBT.
Benzyl Alcohol	The substance is not PBT.
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-	The substance is not PBT.
Methyl 4-hydroxybenzoate	The substance is not PBT.
Propyl 4-hydroxybenzoate	The substance is not PBT.

vPvB assessment:

Ethanol	The substance is not vPvB.
Benzyl Alcohol	The substance is not vPvB.
Poly(oxy-1,2-ethanediyl),α-	The substance is not vPvB.
Methyl 4-hydroxybenzoate	The substance is not vPvB.
Propyl 4-hydroxybenzoate	The substance is not vPvB.

Other adverse effects: No additional information.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG) Code

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association (IATA) Dangerous Goods Regulations (DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

Comprehensive Mineral Supplement (CMS)

Transport in Bulk according to IMO Instruments

IMO hazard class	Not applicable
Environmental hazards	Not applicable
Material hazardous only in bulk	Not applicable

SECTION 15: Regulatory information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals: None of the ingredients are listed.

CERCLA:

64-17-5	Ethanol	Listed	100 lb

RCRA:

64-17-5	Ethanol	Listed	D001

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

64-17-5	Ethanol	Listed
100-51-6	Benzyl Alcohol	Listed

New Jersey Right to Know:

64-17-5	Ethanol	Listed

New York Right to Know:

64-17-5	Ethanol	Listed

Pennsylvania Right to Know:

64-17-5	Ethanol	Listed
100-51-6	Benzyl Alcohol	Listed

California Proposition 65: None of the ingredients are listed.

Additional information: Not determined.

SECTION 16: Other information

Disclaimer:

This product has been classified in accordance with paragraph (d) (1)(i) of 1910.1200, GHS Revision 7 and certain provision of GHS Revision 8. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial Preparation Date: 03.15.2000

Revision Date: 01.22.2025

Revision Notes:

Revision Date	Notes
2025-01-22	Version 4

End of Safety Data Sheet